



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1088908
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1088908

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Mai Oil Operations, Inc.
Well Name	Schartz-Menzer Unit 1
Doc ID	1088908

Tops

Name	Top	Datum
Anhydrite	1034	+975
Topeka	2992	-983
Heebner	3226	-1217
Toronto	3240	-1231
Douglas	3256	-1247
Lansing	3286	-1277
Base Kansas City	3504	-1495
Arbuckle	3562	-1553

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner

Sam Brownback, Governor

July 27, 2012

Allen Bangert
Mai Oil Operations, Inc.
8411 PRESTON RD STE 800
DALLAS, TX 75225-5520

Re: ACO1
API 15-009-25689-00-00
Schartz-Menzer Unit 1
NW/4 Sec.21-17S-15W
Barton County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Allen Bangert

OPERATOR

Company: Mai Oil Operations, Inc
 Address: 8411 Preston RD STE 800
 Dallas, TX 75225

Contact Geologist:
 Contact Phone Nbr: 214-219-8883
 Well Name: Schartz-Menzer Unit #1
 Location: 8 5/8" @ 1040'
 Pool:
 State: Kansas, Barton Co.

API: 15-009-25689-00-00
 Field: Pospishel
 Country: USA



Musgrove
PETROLEUM
CORPORATION
 Claflin, Kansas

Scale 1:240 Imperial

Well Name: Schartz-Menzer Unit #1
 Surface Location: 8 5/8" @ 1040'
 Bottom Location:
 API: 15-009-25689-00-00
 License Number:
 Spud Date: 5/8/2012 Time: 3:34 PM
 Region: SE-NE-NE-NW 21-17s-15w
 Drilling Completed: 5/15/2012 Time: 8:50 PM
 Surface Coordinates: 375' From North Line & 2625' From West Line
 Bottom Hole Coordinates:
 Ground Elevation: 2001.00ft
 K.B. Elevation: 2009.00ft
 Logged Interval: 2900.00ft To: 3630.00ft
 Total Depth: 3630.00ft
 Formation: Lansing
 Drilling Fluid Type: Chemical Mud was displaced at 2651'

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: Latitude:
 N/S Co-ord: 375' From North Line
 E/W Co-ord: 2625' From West Line

LOGGED BY

Company: Musgrove Petroleum Corp.
 Address: 212 Main St.
 Claflin, KS 67525

Phone Nbr: 620-546-3960
 Logged By: Geologist Name: Josh Austin

CONTRACTOR

Contractor: Southwind Drilling, Inc
 Rig #: 3
 Rig Type:
 Spud Date: 5/8/2012 Time: 3:34 PM
 TD Date: 5/15/2012 Time: 8:50 PM
 Rig Release: Time:

ELEVATIONS

K.B. Elevation: 2009.00ft Ground Elevation: 2001.00ft

NOTES

On the basis of the positive structural position and the results from the drill stem test, it was recommended by all parties involved in the Scharz-Menzer Unit #1, that 5 1/2" production casing be set and cemented at the rotary total depth to further test the Lansing zones.

MAI Oil Operations, Inc.

well comparison sheet

DRILLING WELL					COMPARISON WELL				
Scharz-Menzer Unit 1					Menzer 1				
								Structural Relationship	
2009 KB					2003 KB				
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	
Topeka	2995	-986	2992	-983					
Heebner	3229	-1220	3226	-1217	3226	-1223	3	6	
Toronto	3243	-1234	3240	-1231	3241	-1238	4	7	
Douglas	3262	-1253	3256	-1247					
Lansing	3288	-1279	3286	-1277	3286	-1283	4	6	
Base KC	3506	-1497	3504	-1495	3504	-1501	4	6	
Arbuckle	3563	-1554	3562	-1553	3558	-1555	1	2	
Total Depth	3630	-1621	3629	-1620	3575	-1572			

ROCK TYPES

Congl	Lmst fw7>	shale, gry	Carbon Sh
Dolsec	shale, grn		

ACCESSORIES

- MINERAL**
- Silty
 - △ Chert White
 - Mc Mica

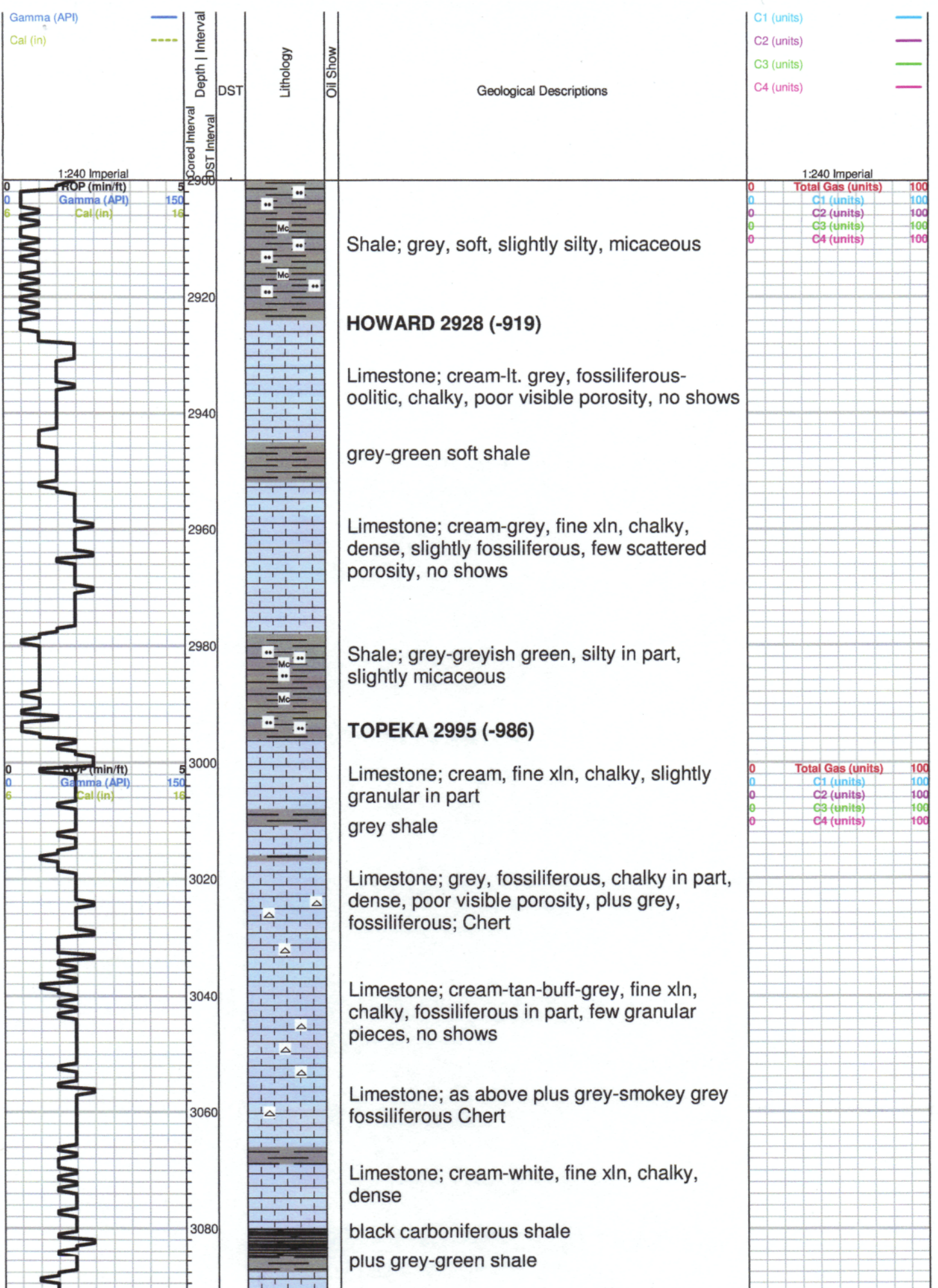
- FOSSIL**
- ⚡ Oomoldic

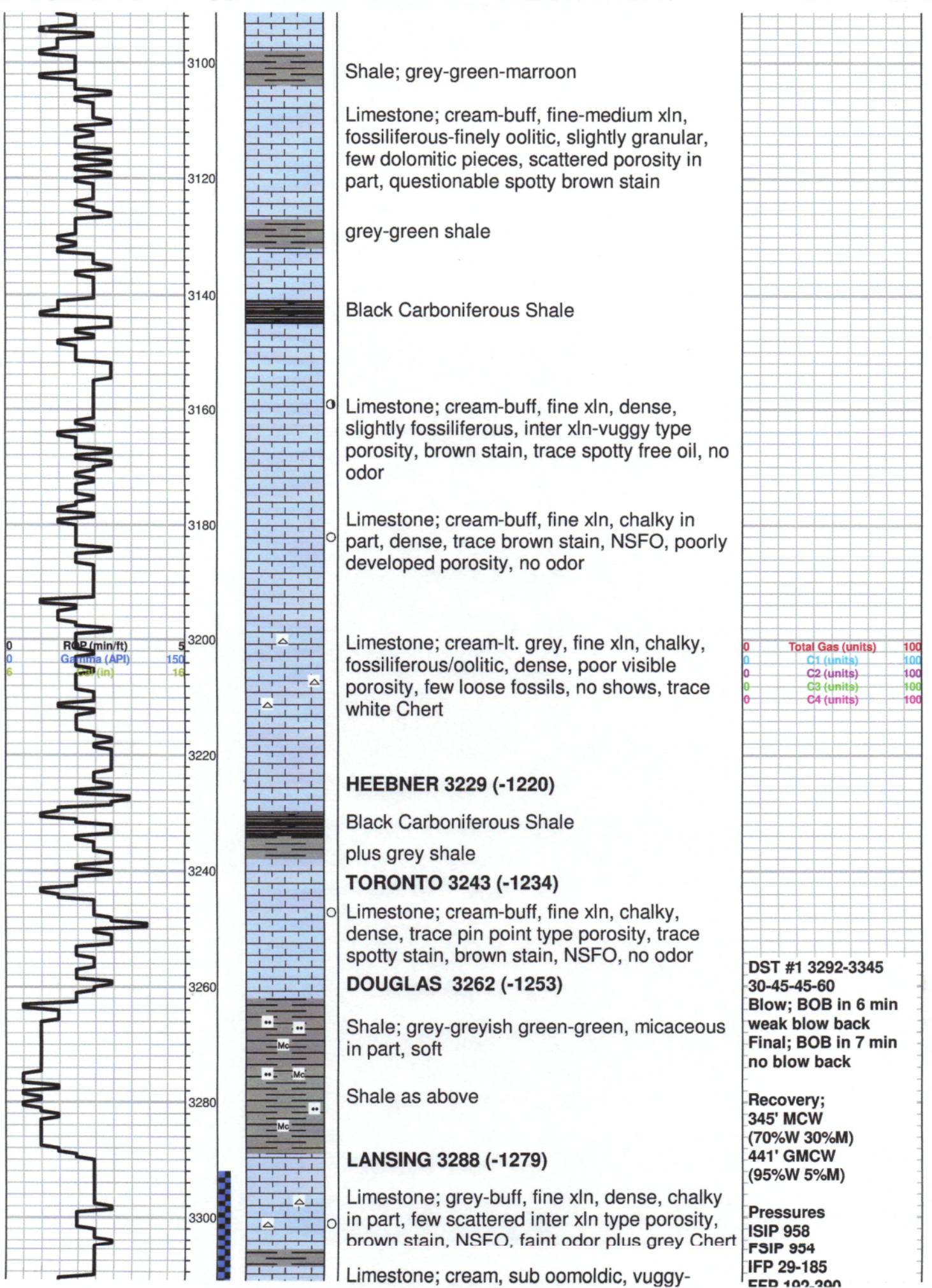
OTHER SYMBOLS

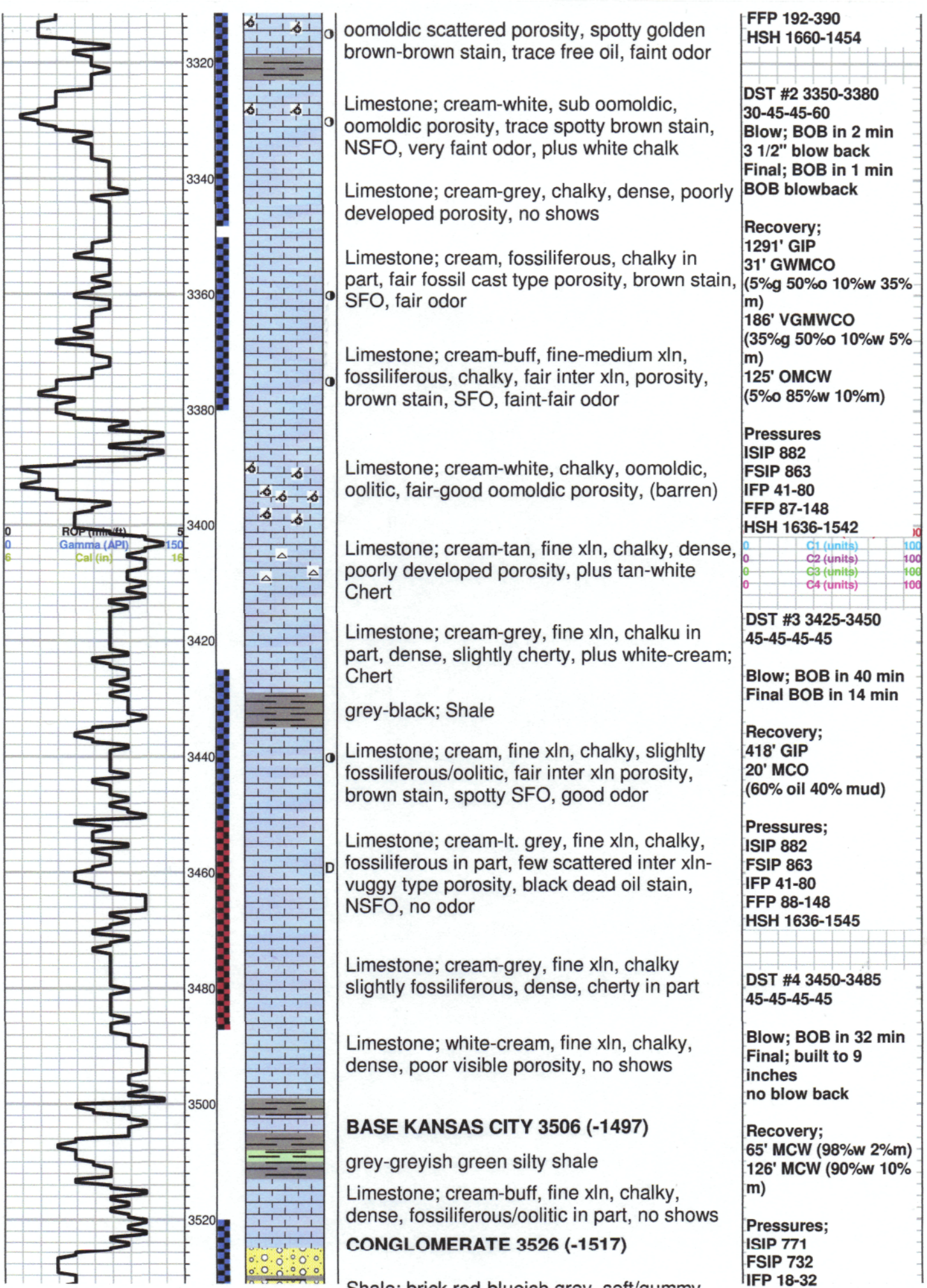
- DST**
- DST Int
 - DST alt
 - Core
 - || tail pipe

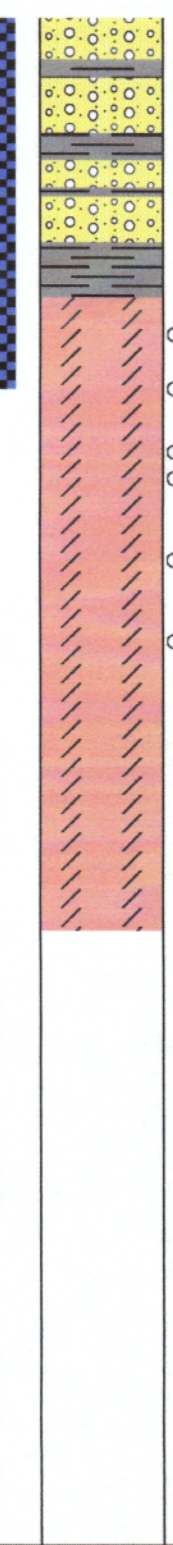
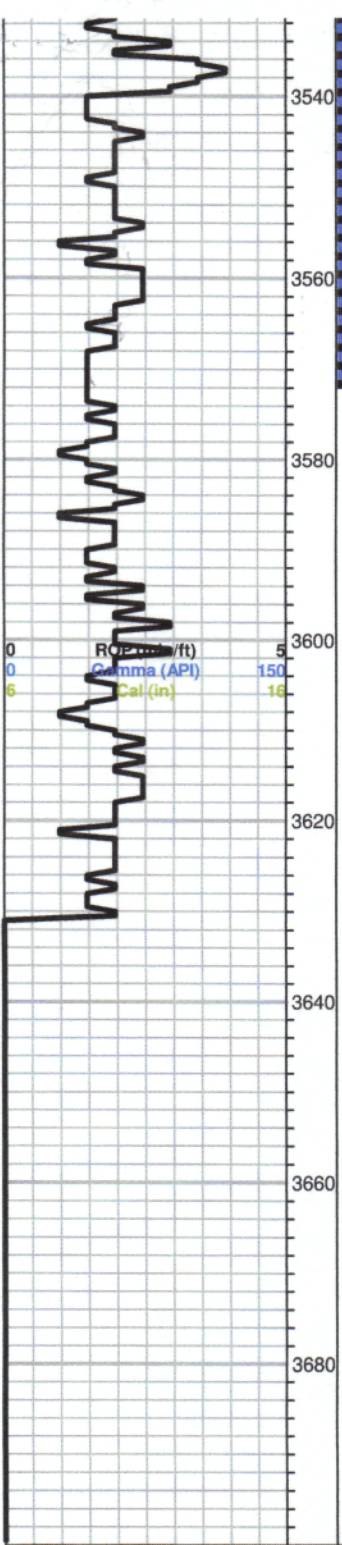
Curve Track #1						
ROP (min/ft)						

TG, C1 - C5	
Total Gas (units)	









Shale; brick red-blueish grey, soft/gummy

Shale as above few pieces yellow oolitic chert plus pink-orange-cream, boney Chert

Shale and Chert; as above variety of colors

ARBUCKLE 3563 (-1554)

Dolomite; lt. grey-white, fine-medium xln, fair inter xln porosity, trace brown spotty stain, spotty SFO, very faint odor

Dolomite; lt. grey, fine-medium xln, few inter xln, porosity, black stain, trace free oil, very faint odor

Dolomite; as above, cherty, poor visible porosity, trace black stain, NSFO, no odor

Dolomite; white-lt. grey, fine xln, slightly sucrosic, dense, poorly developed porosity, trace black stain, NSFO, no odor

Dolomite; as above

ROTARY TOTAL DEPTH 3630 (-1621)

FFP 77-118
 HSH 1731-1608

DST #5 3520-3570
 30-30-30-30

Blow; weak

Recovery;
 15' oil specked mud

Pressures;
 ISIP 498
 FSIP 185
 IFP 14-15
 FFP 23-21
 HSH 1779-1747
 Plugging Action on
 Second opening

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations Inc
 8411 Preston Rd ste 800
 Dallas TX 75225-5520
 ATTN: Josh Austin

Schartz-Menzer Unit #1
21-17s 15w Barton,KS
 Job Ticket: 45724 **DST#: 1**
 Test Start: 2012.05.12 @ 08:25:00

GENERAL INFORMATION:

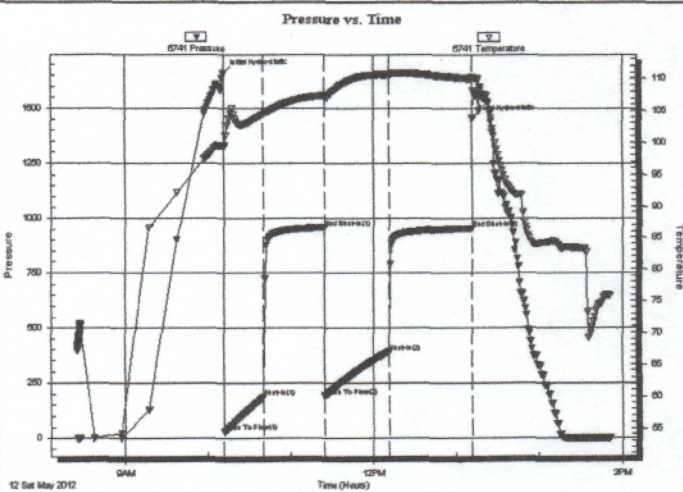
Formation: **LKC "A-C"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:11:30
 Time Test Ended: 14:52:00
 Interval: **3292.00 ft (KB) To 3345.00 ft (KB) (TVD)**
 Total Depth: 3345.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jim Svaty
 Unit No: 41
 Reference Elevations: 2009.00 ft (KB)
 2001.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6741

Inside

Press@RunDepth: 390.58 psig @ 3294.00 ft (KB)
 Start Date: 2012.05.12 End Date: 2012.05.12
 Start Time: 08:25:01 End Time: 14:51:30
 Capacity: 8000.00 psig
 Last Calib.: 2012.05.12
 Time On Btm: 2012.05.12 @ 10:11:00
 Time Off Btm: 2012.05.12 @ 13:11:30

TEST COMMENT: 30-IFP- BOB in 6 min
 45-ISIP- Surface Blow in 5 min Died in 15 min
 45-FFP- BOB in 7 min
 60-FSIP- No Blow



PRESSURE SUMMARY

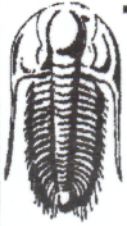
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1660.14	99.45	Initial Hydro-static
1	29.54	99.23	Open To Flow (1)
29	185.09	104.40	Shut-In(1)
73	958.20	107.33	End Shut-In(1)
74	192.33	107.12	Open To Flow (2)
120	390.58	110.64	Shut-In(2)
180	954.20	109.95	End Shut-In(2)
181	1454.66	110.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
345.00	MCW 30% m 70% w	4.84
441.00	GMCW 5% m 95% w	6.19

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations Inc
 8411 Preston Rd ste 800
 Dallas TX 75225-5520
 ATTN: Josh Austin

Schartz-Menzer Unit #1
21-17s 15w Barton,KS
 Job Ticket: 45725 **DST#: 2**
 Test Start: 2012.05.12 @ 19:52:00

GENERAL INFORMATION:

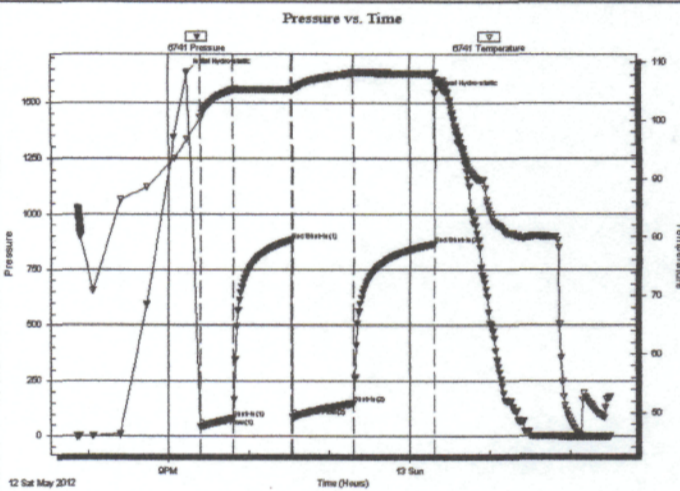
Formation: **LKC " E & F "**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:24:00
 Time Test Ended: 02:30:00
 Interval: **3350.00 ft (KB) To 3380.00 ft (KB) (TVD)**
 Total Depth: 3380.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jim Svaty
 Unit No: 41
 Reference Elevations: 2009.00 ft (KB)
 2001.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6741

Inside

Press@RunDepth: 148.74 psig @ 3352.00 ft (KB)
 Start Date: 2012.05.12 End Date: 2012.05.13
 Start Time: 19:52:01 End Time: 02:29:30
 Capacity: 8000.00 psig
 Last Calib.: 2012.05.13
 Time On Btm: 2012.05.12 @ 21:14:00
 Time Off Btm: 2012.05.13 @ 00:19:00

TEST COMMENT: 30-IFP- BOB in 30 min
 45-ISIP- Surface Blow Building to 3 1/2 in
 45-FFP- BOB in 1 min
 60-FSIP- BOB in 7 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1636.74	96.71	Initial Hydro-static
10	41.13	100.39	Open To Flow (1)
34	80.06	105.23	Shut-In(1)
78	882.26	105.38	End Shut-In(1)
79	87.90	105.25	Open To Flow (2)
124	148.74	108.19	Shut-In(2)
185	863.33	108.01	End Shut-In(2)
185	1542.07	108.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
31.00	GWMC0 5%g 10%w 35%m 50%o	0.43
186.00	VGMWCO 35%g 5%m 10%w 50%o	2.61
125.00	OMCW 5%o 10%m 85%w	1.75
0.00	1291 GIP	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations Inc
 8411 Preston Rd ste 800
 Dallas TX 75225-5520
 ATTN: Josh Austin

Schartz-Menzer Unit #1
21-17s 15w Barton,KS
 Job Ticket: 47126 DST#: 3
 Test Start: 2012.05.13 @ 09:43:01

GENERAL INFORMATION:

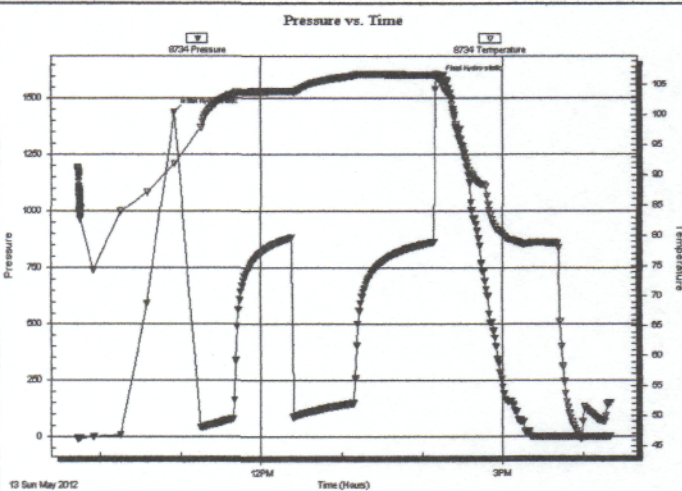
Formation: **LKC " H "**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:15:00
 Time Test Ended: 16:20:30
 Interval: **3425.00 ft (KB) To 3450.00 ft (KB) (TVD)**
 Total Depth: 3450.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jim Svaty
 Unit No: 41
 Reference Elevations: 2009.00 ft (KB)
 2001.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8734

Outside

Press@RunDepth: psig @ 3427.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.05.13 End Date: 2012.05.13 Last Calib.: 2012.05.13
 Start Time: 09:43:01 End Time: 16:20:30 Time On Btm: 2012.05.13 @ 10:55:00
 Time Off Btm: 2012.05.13 @ 14:13:00

TEST COMMENT: 45-IFP- Surface Blow in 1 min Building to BOB in 40 min
 45-ISIP- No Blow
 45-FFP- BOB in 14 min
 45-FSIP- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1439.21	91.84	Initial Hydro-static
198	1583.73	105.77	Final Hydro-static

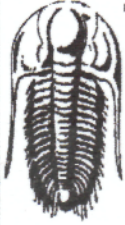
Recovery

Length (ft)	Description	Volume (tbt)
20.00	MCO 40% m 60% o	0.28
0.00	418 GIP	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations Inc
 8411 Preston Rd ste 800
 Dallas TX 75225-5520
 ATTN: Josh Austin

Schartz-Menzer Unit #1
21-17s 15w Barton,KS
 Job Ticket: 47127 DST#: 4
 Test Start: 2012.05.13 @ 21:36:00

GENERAL INFORMATION:

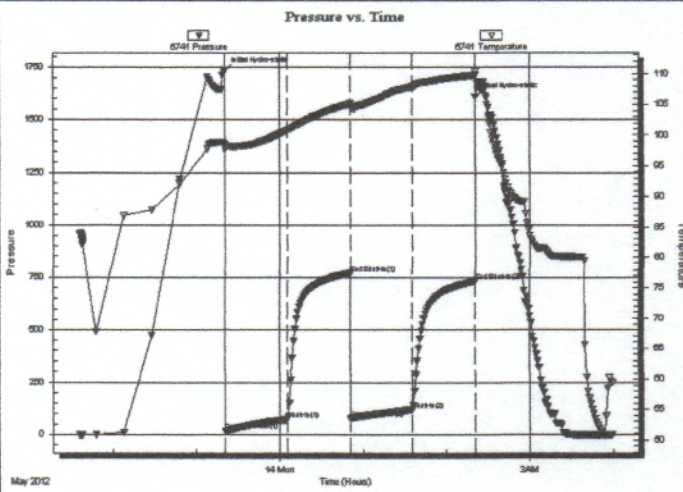
Formation: **LKC "I & J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:21:00
 Time Test Ended: 04:00:00
 Interval: **3450.00 ft (KB) To 3485.00 ft (KB) (TVD)**
 Total Depth: 3485.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jim Svaty
 Unit No: 41
 Reference Elevations: 2009.00 ft (KB)
 2001.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6741

Inside

Press@RunDepth: 118.36 psig @ 3457.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.05.13 End Date: 2012.05.14 Last Calib.: 2012.05.14
 Start Time: 21:36:01 End Time: 03:59:30 Time On Btm: 2012.05.13 @ 23:20:30
 Time Off Btm: 2012.05.14 @ 02:21:00

TEST COMMENT: 45-IFP- BOB in 32 min
 45-ISIP- No Blow
 45-FFP- Surface Blow Building to 9 in
 45-FSIP- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1731.29	98.52	Initial Hydro-static
1	18.24	97.58	Open To Flow (1)
45	72.65	100.79	Shut-In(1)
90	771.21	105.14	End Shut-In(1)
91	77.39	104.73	Open To Flow (2)
135	118.36	107.87	Shut-In(2)
180	732.39	109.74	End Shut-In(2)
181	1608.72	110.47	Final Hydro-static

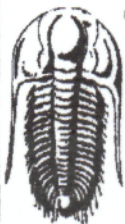
Recovery

Length (ft)	Description	Volume (bbl)
65.00	MCW 2% m 98% w	0.91
126.00	MCW 10% m 90% w	1.77

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations Inc
 8411 Preston Rd ste 800
 Dallas TX 75225-5520
 ATTN: Josh Austin

Schartz-Menzer Unit #1
21-17s 15w Barton,KS
 Job Ticket: 47128 **DST#: 5**
 Test Start: 2012.05.14 @ 12:17:00

GENERAL INFORMATION:

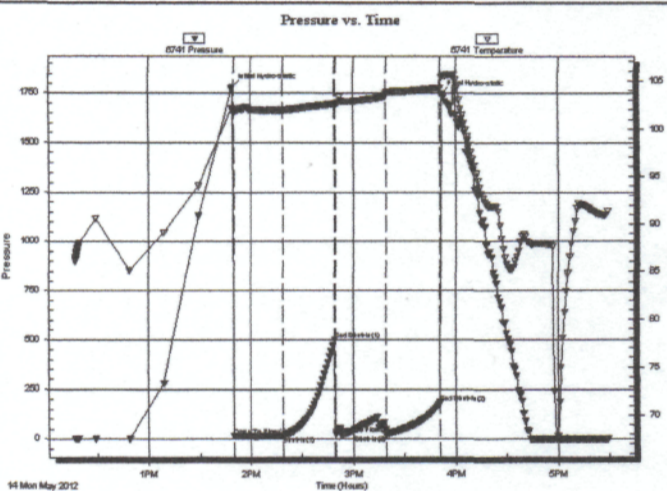
Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:50:00
 Time Test Ended: 17:30:00
 Interval: **3520.00 ft (KB) To 3570.00 ft (KB) (TVD)**
 Total Depth: 3570.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jim Svaty
 Unit No: 41
 Reference Elevations: 2009.00 ft (KB)
 2001.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6741

Inside

Press@RunDepth: 21.48 psig @ 3521.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.05.14 End Date: 2012.05.14 Last Calib.: 2012.05.14
 Start Time: 12:17:01 End Time: 17:29:30 Time On Btm: 2012.05.14 @ 13:49:30
 Time Off Btm: 2012.05.14 @ 15:52:00

TEST COMMENT: 30-IFP- Surface Blow Only
 30-ISIP- No Blow
 30-FFP- Surface Blow in 2 min Died in 8 min
 30-FSIP- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1779.55	102.07	Initial Hydro-static
1	14.73	101.61	Open To Flow (1)
30	15.24	101.92	Shut-In(1)
60	498.19	102.58	End Shut-In(1)
60	23.59	102.55	Open To Flow (2)
90	21.48	103.64	Shut-In(2)
122	185.74	104.25	End Shut-In(2)
123	1747.33	105.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	OSM	0.21

* Recovery from multiple tests

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 411

Date	5-9-12	Sec.	21	Twp.	17	Range	15	County	Barton	State	Ks	On Location		Finish	4:30 AM
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Lease	—	Well No.	—	Location	K-4 + Olmitz Rd, 2N, 2E W										
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Contractor	Southwind #3							Owner	S/Intro							
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Type Job	Surface							To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.								
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Hole Size	12 1/4"			T.D.	1040'										
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Csg.	8 5/8"			Depth	1040'										
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Tbg. Size								Depth								
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Tool								Depth								
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Cement Left in Csg.	20'			Shoe Joint	20'										
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Meas Line								Displace	65 BCS										
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EQUIPMENT								375 sy 60/40 3% CC 2% Gel							
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Pumptrk	9	No.	Cementer	Matt										
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Bulktrk	13	No.	Driver	Doug										
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Bulktrk	pu.	No.	Driver	Rick										
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JOB SERVICES & REMARKS								Common							
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Remarks:	Schartz - Menzer unit #1														
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Rat Hole	Salt														
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Mouse Hole	Flowseal														
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Centralizers	Kol-Seal														
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Baskets	Mud CLR 48														
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D/V or Port Collar	CFL-117 or CD110 CAF 38														
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	Cement did Circulate														
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	Sand														
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	Handling														
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	Mileage														
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FLOAT EQUIPMENT															
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	Guide Shoe														
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	Centralizer														
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	Baskets														
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	AFU Inserts														
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	Float Shoe														
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	Latch Down														
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	1 - Rubber plug														
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	Pumptrk Charge														
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	Mileage														
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	Tax														
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	Discount														
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	Total Charge														
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X	Signature	Kout													
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Home Office P.O. Box 32 Russell, KS 67665

No. **654**

Date		Sec.	Twp.	Range	County	State	On Location	Finish
5-15-12		21	17	15	Barton	KS		1:45 p.m.
Lease <i>Schwarz Menzer Unit</i>		Well No. <i>1</i>			Location <i>Galatia 20.55 to 1400' 1/2" 5 in 10</i>			
Contractor <i>Southwind #3</i>					Owner			
Type Job <i>Product on string</i>					To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Hole Size <i>7 7/8</i>		T.D. <i>3630</i>			Charge To <i>Ma. 0.1</i>			
Csg. <i>5 1/2 14#</i>		Depth <i>3625</i>			Street			
Tbg. Size		Depth			City			
Tool		Depth			State			
Cement Left in Csg. <i>22.77</i>		Shoe Joint <i>22.77</i>			The above was done to satisfaction and supervision of owner agent or contractor.			
Meas Line		Displace <i>87 3/4 BBL</i>			Cement Amount Ordered <i>16c 60/40 10% salt 20% gel</i>			
EQUIPMENT					<i>1/4" #10 1000 gal mud clear 48</i>			
Pumptrk	No. <i>5</i>	Cementer <i>raig</i>			Common			
		Helper <i>Brett</i>						
Bulktrk	No.	Driver			Poz. Mix			
		Driver						
Bulktrk	No. <i>8</i>	Driver <i>tonnie</i>			Gel.			
		Driver						
JOB SERVICES & REMARKS					Calcium			
Remarks:					Hulls			
Rat Hole <i>30SK</i>					Salt			
Mouse Hole					Flowseal			
Centralizers					Kol-Seal			
Baskets					Mud CLR 48			
D/V or Port Collar					CFL-117 or CD110 CAF 38			
<i>5 1/2 set @ 3625 - Insert 3625.</i>					Sand			
<i>Est Circulation Pump 1000 gal mud clear</i>					Handling			
<i>Plus Red Hole Cement 5 1/2 clear</i>					Mileage			
<i>1 1/2" 5" Displace Plug Plug lander</i>					FLOAT EQUIPMENT			
<i>@ 1400ft. Release Pressure Dr.</i>					Guide Shoe <i>5 1/2</i>			
					Centralizer <i>10 Turb's</i>			
					Baskets			
					AFU Inserts			
					Float Shoe <i>1</i>			
					Latch Down <i>1</i>			
					Pumptrk Charge			
					Mileage			
					Tax			
					Discount			
					Total Charge			
Signature <i>[Signature]</i>								

